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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/516,122	03/01/2000		Vladislav Boutenko	14XZ00060	3517	
7	590	02/27/2002				
Jay L Chaskir			EXAMINER			
General Electric Company 3135 Easton Turnpike Fairfield, CT 06431-0001				PORTA, I	PORTA, DAVID P	
				ART UNIT	PAPER NUMBER	
				2882		
				DATE MAILED: 02/27/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/516,122	BOUTENKO ET AL.					
Office Action Summary	Examiner	Art Unit					
•	David P. Porta	2882					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	66(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on							
	— · is action is non-final.						
3) Since this application is in condition for allowa		rosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) <u>1-35</u> is/are pending in the application							
4a) Of the above claim(s) is/are withdraw							
5) Claim(s) is/are allowed.	Wir Holli Goriolagiaagii.						
6)⊠ Claim(s) <u>1-35</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers	•						
9)☐ The specification is objected to by the Examine	r.	•					
10)⊠ The drawing(s) filed on 01 March 2000 is/are: a)⊠ accepted or b)□ objected to b	y the Examiner.					
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. S	See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents	s have been received.						
2. Certified copies of the priority documents	s have been received in Applicat	ion No					
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).						
14) Acknowledgment is made of a claim for domestic	c priority under 35 U.S.C. § 119((e) (to a provisional application).					
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)					
S. Patent and Trademark Office							

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 1 March 2000 fails to comply with 37 CFR 1.98(a)(1), which requires a list of all patents, publications, or other information submitted for consideration by the Office. It has been placed in the application file, but the information referred to therein has not been considered. The transmittal letter states that a PTO-1449 was filed with this IDS but no such from is present.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-2, and 35 are rejected under 35 U.S.C. 102(b) as being anticipated by Relihan et al (4,590,603). Relihan et al. discloses a method and apparatus for maintaining patient entrance dose constant that allows for varying the SID and adjusting the emissions to keep the dose at an estimated SOD constant. The SID is measured with a variable resistor 41 (column 4, lines 45-47). The SOD is estimated by subtracting the distance from the entrance plane to the image intensifier, "typically at 30 cm" (column 4, lines 39-43).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 4. Claims 3-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Relihan et al. (4,590,603). Relihan et al discloses all of the steps of applicant's claimed invention except for the specifics of estimating the SOD, using the ratio of squares of the distances, and adjusting the diaphragm to regulate gain of the system. Official Notice is taken that the use of the ratio of squares is notoriously well known in the X-ray art and it would have been obvious to one of ordinary skill in the art to employ in the device of Relihan et al. motivated by the stated desire to control dose at the patient entrance. Similarly Official Notice is taken that the use of a diaphragm in a system similar to Relihan et al.'s is notoriously well known and would have been obvious to employ motivated by the benefits to image quality in a varying system. The various means of estimating the SOD are well known methods in the X-ray art and would have been obvious to one of ordinary skill in the art to employ motivated by the benefits to increased accuracy in determining the plane of the region of interest over Relihan et al.'s "typically 30cm".
- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Relihan et al. (6,233,310) discloses optimizing dose.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David P. Porta whose telephone number is 703-308-4852. The examiner can normally be reached on Mon-Thurs, 6:30-17:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 703-305-3492. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

David P. Porta Primary Examiner Art Unit 2882

DPP February 25, 2002